

**Notice of Allowability**

Application No.

09/707,975

Applicant(s)

REUSENS, PETER PAUL FRANS

Examiner

Daniel Swerdlow

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 24 June 2005 and interview conducted 24 August 2005.
2. ☒ The allowed claim(s) is/are 2-7, 9-16 and 18-28.
3. ☒ The drawings filed on 08 November 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul J. Wilson, Reg. No. 45,879 on 24 August 2005.

The application has been amended as follows:

**Claim 5 is amended to read as follows:**

5. A telephone system wherein analog telephone signals are frequency multiplexed with digital data signals for transmission over a line, wherein at a receiver at a customer premise, a ~~conventional~~ standard POTS ringing signal is generated ~~[[by]]~~ upon the detection of a ringing indication signal having a voltage amplitude less than 30 V RMS and comprising a spectrum that lacks detectable components in a frequency band that is used for digital data signals at a time when the ringing indication signal announces an incoming telephone call.

**Claim 12 is amended to read as follows:**

12. A central office installation for transmitting and receiving frequency multiplexed analog telephone signals and digital data signals over a line, wherein the installation comprises:

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a splitter for demultiplexing and multiplexing analog telephone signals and digital data signals,

a digital data signals device connected to the splitter for transmitting and receiving digital data signals, and

an analog telephone signals device connected to the splitter for transmitting and receiving analog data signals, wherein the analog telephone signals device generates a conventional standard POTS ringing signal when a ringing indication signal is detected, the ringing indication signal having a voltage amplitude less than 30 V RMS and comprising a spectrum that lacks detectable components in a frequency band that is used for digital data signals at a time when the ringing indication signal announces an incoming telephone call.

### REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:
2. Regarding Claim 5, Amrany discloses a telephone system (Fig. 3) that includes telephone service and DSL service (i.e., wherein analog telephone signals are frequency multiplexed with digital data signals for transmission over a line) and where ringing signals are filtered by a low pass filter with a cutoff frequency of 20 Hz. (Fig. 3, reference 50, 162: column 5, lines 10-12) (i.e., wherein an incoming telephone call is announced by a ringing indication signal comprising a spectrum that lacks detectable components in a frequency band that is used for digital data signals at a time when the ringing indication signal announces an incoming telephone call). Freimanis discloses use of an audio tone alerting (i.e., ringing indication) signal in the same voltage range as voice signals (column 1, lines 18-21) which applicant admits have a voltage

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amplitude less than 1V RMS (p. 1, lines 30-32). However, in Amrany the band limited ringing signal is used to directly actuate a standard POTS telephone ringer and in Freimanis the low-voltage ringing signal is utilized to actuate a dual-purpose ringer without generation of a standard POTS ringing signal (column 2, lines 31-52). As such, the prior art does not disclose or suggest a receiver at a customer premise whereat a standard POTS ringing signal is generated upon detection of a ringing indication signal as claimed.

3. Claims 2 through 4, 6 and 7 are allowable due to dependence from Claim 5.
4. Claim 12 contains limitations similar to those of Claim 5 and is allowable for the same reasons.
5. Claims 9 through 11 and 13 through 16 are allowable due to dependence from Claim 12.
6. Claims 18 through 28 are allowable for reasons stated in the prior Office action mailed on 8 March 2005.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Swerdlow whose telephone number is 571-272-7531. The examiner can normally be reached on Monday through Friday between 7:30 AM and 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh H. Tran can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Daniel Swerdlow  
Examiner  
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ds  
24 August 2005